

CLAIMS

1. A fire protection device for domestic appliances comprising at least one fault current circuit breaker and at least one gas sensor (5) with gas sensor circuit, whereby the at least one fault current circuit breaker is designed such and arranged in the domestic appliance (2), that a fault current in one of the electrical conductor of the domestic appliance (2) results in disconnection of the electricity supply of the domestic appliance (2) and the at least one gas sensor (5) from a certain quantity of control gas inside the domestic appliance (2) generates a signal, which likewise leads to disconnection of the electricity supply of the domestic appliance (2).
2. The fire protection device as claimed in Claim 1, characterised in that a fault current in one of the electrical conductors of the domestic appliance (2) leads to all-pole disconnection of the electricity supply of the domestic appliance (2) and the at least one gas sensor (5) from a certain quantity of control gas inside the domestic appliance (2) generates a signal, which likewise leads to all-pole disconnection of the electricity supply of the domestic appliance (2).
3. The fire protection device as claimed in Claim 1 or 2, characterised in that the fault current circuit breaker is integrated into the mains plug (1) of the domestic appliance (2).
4. The fire protection device as claimed in Claim 3, characterised in that a main switch (6) for supplying the individual components of the

domestic appliance (2) is connected to the mains plug (1), and this main switch (6) is supplied only with low voltage.

5. The fire protection device as claimed in Claim 4, characterised in that the gas sensor circuit with gas sensor (5) is connected to the fault current circuit breaker.
6. The fire protection device as claimed in Claim 4, characterised in that the gas sensor circuit is connected with the gas sensor (5) directly to the protective conductor (PE) and the fault current circuit breaker is triggered at a certain concentration of the control gas.
7. The fire protection device as claimed in Claim 4, characterised in that the main switch (6) is connected directly to the protective conductor (PE).
8. The fire protection device as claimed in any one of the foregoing claims, characterised in that the fault current circuit breaker acts as main switch for the domestic appliance (2).
9. The fire protection device as claimed in any one of the foregoing claims, characterised in that the gas sensor (5) is arranged in a door of the domestic appliance (2).
10. The fire protection device as claimed in any one of the foregoing claims, characterised in that the gas sensor (5) is arranged in the floor region of the domestic appliance (2).